



\*\*FILE\*\*ID\*\*PATSCA

C 12

PAT  
V04

PPPPPPPP P AAAAAAA TTTTTTTTTT SSSSSSS CCCCCCCC AAAAAAA  
PPPPPPPP PP AA AA TT SS SSSSSSS CC AA AA  
PP PP AA AA TT SS CC AA AA  
PP PP AA AA TT SS CC AA AA  
PPPPPPPP AA AA TT SSSSSS CC AA AA  
PPPPPPPP AA AA TT SSSSSS CC AA AA  
PP AAAAAAAAAA TT SS CC AAAAAAAAAA  
PP AAAAAAAAAA TT SS CC AAAAAAAAAA  
PP AA AA TT SS CC AA AA  
PP AA AA TT SSSSSSS CC AA AA  
PP AA AA TT SSSSSSS CC AA AA  
PP AA AA TT SSSSSSS CC AA AA

LL I II II SSSSSSS  
LL I II II SSSSSSS  
LL I I SS SSSSSSS  
LL I I SS SSSSSS  
LLLLLLLLLL I II II SSSSSSS  
LLLLLLLLLL I II II SSSSSSS

I WE  
S RE L MC

```
1 0001 0 MODULE PATSCA ( ! Lexical scanner for PATCH
2 0002 0           XIF %VARIANT EQL 1
3 0003 0           XTHEN
4 0004 0           ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE, NONEXTERNAL = LONG_RELATIVE),
5 0005 0           XFI
6 0006 0           IDENT = 'V04-000'
7 0007 0           ) =
8 0008 1 BEGIN
9 0009 1
10 0010 1
11 0011 1 ****
12 0012 1 *
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30 0030 1 *
31 0031 1 *
32 0032 1 ****
33 0033 1 *
34 0034 1
35 0035 1 ++
36 0036 1 FACILITY: PATCH
37 0037 1
38 0038 1 ABSTRACT:
39 0039 1
40 0040 1 This module contains the routine called by the parser to get a
41 0041 1 token from the input line. It also contains the routine that
42 0042 1 translates an alpha string into a keyword token.
43 0043 1
44 0044 1 ENVIRONMENT: STARLET, user mode, interrupts disabled.
45 0045 1
46 0046 1 AUTHOR: Carol Peters, CREATION DATE: 13 September 1977
47 0047 1
48 0048 1 MODIFIED BY:
49 0049 1
50 0050 1 Kathleen Morse, 20 October 1977 : Version X01.00
51 0051 1
52 0052 1 Revision History:
53 0053 1
54 0054 1 NO   DATE      PROGRAMMER      PURPOSE
55 0055 1 --   ----      -----      -----
56 0056 1
57 0057 1 00   20-OCT-77    K.D. MORSE     ADAPT VERSION 2 FOR PATCH
```

58	0058	1	01	4-JAN-78	K.D. MORSE	NO CHANGES FOR VERS 3.
59	0059	1	02	24-JAN-78	K.D. MORSE	NO CHANGES FOR VERS 4.
60	0060	1	03	25-APR-78	K.D. MORSE	CONVERT TO NATIVE COMPILER.
61	0061	1	04	01-MAY-78	K.D. MORSE	CHANGE ALPHA TO ALPHA STR_TOKEN.
62	0062	1	05	18-MAY-78	K.D. MORSE	PAT\$GET A TOKEN SETS MODE LEVEL
63	0063	1				TO LOCAL BEFORE CALLING THE
64	0064	1				LEXICAL ROUTINE. (05)
65	0065	1				NO CHANGES FOR VERS 6.
66	0066	1	06	18-MAY-78	K.D. MORSE	NO CHANGES FOR VERS 7-8.
67	0067	1	07	13-JUN-78	K.D. MORSE	ADD FAO COUNTS TO SIGNALS.
68	0068	1				
69	0069	1	--			

```
; 71 0070 1 !  
; 72 0071 1 ! TABLE OF CONTENTS:  
; 73 0072 1 !  
; 74 0073 1 FORWARD ROUTINE  
; 75 0074 1 PAT$GET_A_TOKEN,  
; 76 0075 1 TRANS_LEXEME;  
; 77 0076 1 !  
; 78 0077 1 !  
; 79 0078 1 ! INCLUDE FILES:  
; 80 0079 1 !  
; 81 0080 1 LIBRARY 'SYSS$LIBRARY:LIB.L32';  
; 82 0081 1 REQUIRE 'SRC$:VXSMAC.REQ';  
; 83 0146 1 REQUIRE 'SRC$:PATPCT.REQ';  
; 84 0186 1 REQUIRE 'SRC$:PATGEN.REQ';  
; 85 0408 1 REQUIRE 'SRC$:PATTER.REQ';  
; 86 0615 1 REQUIRE 'SRC$:SCALIT.REQ';  
; 87 0681 1 REQUIRE 'SRC$:SYSSER.REQ';
```

: Extracts a token from the input buffer  
: Translates a lexeme into a token

PATSCA  
V04-000

G 12  
16-Sep-1984 00:39:12    VAX-11 Bliss-32 V4.0-742  
15-Sep-1984 22:50:49    \_\$255\$DUA28:[PATCH.SRC]SYS\$SER.REQ;1 Page 4  
(1)

PAT  
V04

: R0713 1    SWITCHES LIST (SOURCE);  
: R0714 1  
: R0715 1  
: R0716 1    EXTERNAL ROUTINE  
: R0717 1    PAT\$fao\_out;         ! formats a line and outputs to the terminal

```
88 0763 1 REQUIRE 'SRC$:PATKEY.REQ';
89 0896 1
90 0897 1
91 0898 1 MACROS:
92 0899 1
93 0900 1
94 0901 1
95 0902 1 EQUATED SYMBOLS:
96 0903 1
97 0904 1
98 0905 1
99 0906 1 OWN STORAGE:
100 0907 1
101 0908 1
102 0909 1
103 0910 1 EXTERNAL REFERENCES:
104 0911 1
105 0912 1
106 0913 1 EXTERNAL ROUTINE
107 0914 1     PAT$SET_MOD_LVL;
108 0915 1     PAT$MAR_GET_LEX;
109 0916 1
110 0917 1 EXTERNAL
111 0918 1     PAT$GL_KEYW_TBL: VECTOR;
```

! Routine to set the mode level  
! Lexical analyzer  
! Holds keywords for current syntax

```
: 113 0919 1 GLOBAL ROUTINE PAT$GET_A_TOKEN (INPUT_STG_DESC, LEXEME_STG_DESC) = ! Gets a token from input line ; R
114 0920 1
115 0921 1 !++
116 0922 1 Functional description:
117 0923 1
118 0924 1 Extracts a Lexeme from the input stream by calling the routine
119 0925 1 PAT$GET_MAR LEXEME. Translates the lexeme to a token (sometimes a
120 0926 1 null operation). Returns the token as the routine value and
121 0927 1 the ASCII string representing the token in the character string
122 0928 1 pointed to by the pointer field of lexeme_stg_desc. Also returns
123 0929 1 the actual length of the ASCII string of the lexeme in the
124 0930 1 length field of lexeme_stg_desc.
125 0931 1
126 0932 1 The pointer to the input buffer is updated and rewritten into
127 0933 1 the pointer field of INPUT_STG_DESC.
128 0934 1
129 0935 1 Calling sequence:
130 0936 1
131 0937 1 CALL PAT$GET_A_TOKEN (INPUT_STG_DESC.rt.dd, LEXEME_STG_DESC.rt.dv)
132 0938 1
133 0939 1 Inputs:
134 0940 1
135 0941 1 INPUT_STG_DESC - string descriptor to the input buffer.
136 0942 1 LEXEME_STG_DESC - varying string descriptor to the lexeme buffer.
137 0943 1
138 0944 1 Implicit inputs:
139 0945 1
140 0946 1 none
141 0947 1
142 0948 1 Outputs:
143 0949 1
144 0950 1 none
145 0951 1
146 0952 1 Implicit outputs:
147 0953 1
148 0954 1 none
149 0955 1
150 0956 1 Routine value:
151 0957 1
152 0958 1 an encoded representation of the token found.
153 0959 1
154 0960 1 Side effects:
155 0961 1
156 0962 1 The mode level is set to local.
157 0963 1 --
158 0964 1
159 0965 2 BEGIN
160 0966 2
161 0967 2 MAP
162 0968 2 LEXEME_STG_DESC: REF BLOCK [, BYTE]; ! Descriptor of lexeme string
163 0969 2
164 0970 2 LOCAL
165 0971 2 LEXEME_TYPE; ! Type of lexeme found
166 0972 2
167 0973 2 !++
168 0974 2 ! Fill the lexeme buffer with zeroes.
169 0975 2 --
```

```

170      0976 2 ZEROCOR (.LEXEME_STG_DESC [DSC$A_POINTER], (.LEXEME_STG_DESC [DSC$W_MAXLEN] / 4));
171      0977 2 PAT$SET MOD_LVL TLOCAL MODE); ! Set mode level to local
172      0978 2 LEXEME_TYPE = PAT$MAR GET LEX (.INPUT_STG_DESC, .LEXEME_STG_DESC);
173      0979 3 IF (.LEXEME_TYPE EQL ALPHA_STR_TOKEN)
174      0980 2 THEN
175      0981 2 RETURN TRANS_LEXEME (.LEXEME_STG_DESC)
176      0982 2 ELSE
177      0983 2 RETURN .LEXEME_TYPE;
178      0984 1 END; ! End of PAT$GET_A_TOKEN

```

P.AAA:								.TITLE	PATSCA
								.IDENT	\V04-000\
								.PSECT	_PATSSPLIT,NOWRT,NOEXE,O
4E	47	05	02	01	00000		.BYTE	1, 2, 5	
		49	4C	41	00003		.ASCII	\ALIGN\	
		03	03	12	00008		.BYTE	18, 3, 3	
		4C	4C	41	0000B		.ASCII	\ALL\	
		03	02	13	0000E		.BYTE	19, 2, 3	
		44	4E	41	00011		.ASCII	\AND\	
		05	02	14	00014		.BYTE	20, 2, 5	
49	49	43	53	41	00017		.ASCII	\ASCII\	
		04	01	15	0001C		.BYTE	21, 1, 4	
		45	54	59	42	0001F	.ASCII	\BYTE\	
		06	02	02	00023		.BYTE	2, 2, 6	
4C	45	43	4E	41	43	00026	.ASCII	\CANCEL\	
		05	02	03	0002C		.BYTE	3, 2, 5	
		4B	43	45	48	0002F	.ASCII	\CHECK\	
		06	02	04	00034		.BYTE	4, 2, 6	
45	54	41	45	52	43	00037	.ASCII	\CREATE\	
		07	01	07	0003D		.BYTE	7, 1, 7	
54	49	53	4F	50	45	44	00040	.ASCII	\DEPÓSIT\
		07	03	16	00047		.BYTE	22, 3, 7	
4C	41	4D	49	43	45	44	0004A	.ASCII	\DÉCIMAL\
		06	03	0	00051		.BYTE	5, 3, 6	
45	4E	49	46	45	44	00054	.ASCII	\DEFINE\	
		06	03	06	0005A		.BYTE	6, 3, 6	
45	54	45	4C	45	44	0005D	.ASCII	\DELETE\	
		07	01	09	00063		.BYTE	9, 1, 7	
45	4E	49	4D	41	58	45	00066	.ASCII	\EXAMINE\
		03	02	17	0006D		.BYTE	23, 2, 3	
		4F	43	45	00070		.ASCII	\ECO\	
		08	02	08	00073		.BYTE	8, 2, 8	
45	54	41	55	4C	41	56	00076	.ASCII	\EVALUATE\
		04	03	0A	0007E		.BYTE	10, 3, 4	
		54	49	58	45	00081	.ASCII	\EXIT\	
		07	02	19	00085		.BYTE	25, 2, 7	
53	4C	41	42	4F	4C	47	00088	.ASCII	\GLOBÁLS\
		04	03	0B	0008F		.BYTE	11, 3, 4	
		50	4C	45	48	00092	.ASCII	\HÉLP\	
		08	01	1B	00096		.BYTE	27, 1, 11	
4C	41	4D	49	43	45	44	00099	.ASCII	\HEXADECIMAL\
		0A	04	32	000A4		.BYTE	50, 4, 10	
45	5A	49	4C	41	49	54	000A7	.ASCII	\INITIALIZE\
		0B	01	1C	000B1		.BYTE	28, 1, 11	

4E	4F	49	54	43	55	52	54	53	4E	49	000B4	.ASCII \INSTRUCTION\							
					54	52	45	53	06	04	0C	.BYTE 12, 4, 6							
						52	45	07	02	1E	000C2	.ASCII \INSERT\							
							45	54	49	4C	000C8	.BYTE 30, 2, 7							
								04	02	1F	000CB	.ASCII \LITERAL\							
								04	01	21	000D2	.BYTE 31, 2, 4							
								47	4E	4F	4C	000D5	.ASCII \LONG\						
								04	01	21	000D9	.BYTE 33, 1, 4							
								45	44	4F	4D	000DC	.ASCII \MODE\						
								06	04	22	000E0	.BYTE 34, 4, 6							
					45	40	55	44	4F	4D	000E3	.ASCII \MODULE\							
						40	55	07	03	24	000E9	.BYTE 36, 3, 7							
						49	49	43	53	41	4F	000EC	.ASCII \NOASCII\						
							49	49	43	53	09	03	25	000F3	.BYTE 37, 3, 9				
								53	40	41	42	4F	4C	47	4F	4E	000F6	.ASCII \NOGLOBALS\	
									0D	03	26	000FF	.BYTE 38, 3, 13						
4E	4F	49	54	43	55	52	54	53	4E	49	4F	4E	00102	.ASCII \NOINSTRUCTION\					
									07	04	27	0010F	.BYTE 39, 4, 7						
									45	50	4F	43	53	4F	4E	00112	.ASCII \NOSCOPEN\		
									09	04	28	00119	.BYTE 40, 4, 9						
									53	40	4F	42	4D	59	53	4F	4E	0011C	.ASCII \NOSYMBOLS\
										03	03	29	00125	.BYTE 41, 3, 3					
										54	4F	4E	00128	.ASCII \NOT\					
										05	02	2A	0012B	.BYTE 42, 2, 5					
										4C	41	54	43	4F	0012E	.ASCII \OCTAL\			
										02	02	2B	00133	.BYTE 43, 2, 2					
											52	4F	00136	.ASCII \OR\					
										04	03	2C	00138	.BYTE 44, 3, 4					
										45	47	41	50	0013B	.ASCII \PAGE\				
										0A	03	2D	0013F	.BYTE 45, 3, 10					
41	45	52	41	5F	48	43	54	41	50	00142	.ASCII \PATCH_AREA\								
									04	01	2E	0014C	.BYTE 46, 1, 4						
									44	41	55	51	0014F	.ASCII \QUAD\					
									45	43	41	4C	07	02	0D	00153	.BYTE 13, 2, 7		
										50	45	52	00156	.ASCII \REPLACE\					
										45	50	4F	43	53	00160	.ASCII \SCOPÉ\			
										03	02	0E	00165	.BYTE 14, 2, 3					
										54	45	53	00168	.ASCII \SET\					
										04	02	0F	0016B	.BYTE 15, 2, 4					
										57	4F	48	53	0016E	.ASCII \SHOW\				
										07	02	30	00172	.BYTE 48, 2, 7					
										53	4C	4F	42	4D	59	53	00175	.ASCII \SYMBOLS\	
										06	01	10	0017C	.BYTE 16, 1, 6					
										45	54	41	44	50	55	0017F	.ASCII \UPDADE\		
										06	01	11	00185	.BYTE 17, 1, 6					
										59	46	49	52	45	56	00188	.ASCII \VERIFY\		
										04	01	31	0018E	.BYTE 49, 1, 4					
										44	52	4F	44	52	4F	57	00191	.ASCII \WORD\	
											00	00195	.BYTE 0						

KEYWORD\_TABLE = P.AAA  
 .EXTRN PAT\$FAO\_OUT, PAT\$SET\_MOD\_LVL  
 .EXTRN PAT\$MAR\_GET\_LEX  
 .EXTRN PAT\$GL\_KEYW\_TBL  
 .PSFT \_PAT\$CODE,NOWRT,2

			007C 00000	.ENTRY	PAT\$GET_A_TOKEN, Save R2,R3,R4,R5,R6	: 0919
		56	08 AC D0 00002	MOVL	LEXEME_STG_DESC, R6	: 0976
		50	08 A6 3C 00006	MOVZWL	8(R6), R0	
		50	04 C6 0000A	DIVL2	#4, R0	
		50	04 C4 0000D	MULL2	#4, R0	
50	00	6E	00 2C 00010	MOVC5	#0, (SP), #0, R0, @4(R6)	
			04 B6 00015			
		00000000G EF	03 DD 00017	PUSHL	#3	: 0977
			01 FB 00019	CALLS	#1, PAT\$SET_MOD_LVL	
			56 DD 00020	PUSHL	R6	: 0978
		00000000G EF	04 AC DD 00022	PUSHL	INPUT_STG_DESC	
		00000047 8F	02 FB 00025	CALLS	#2, PAT\$MAR_GET_LEX	
			50 D1 0002C	CMPL	LEXEME_TYPE, #7T	: 0979
			09 12 00033	BNEQ	1\$	
		00000000V EF	56 DD 00035	PUSHL	R6	: 0981
			01 FB 00037	CALLS	#1, TRANS_LEXEME	
			04 0003E 1\$:	RET		: 0984

; Routine Size: 63 bytes,    Routine Base: \_PAT\$CODE + 0000

```
180 0985 1 ROUTINE TRANS_LEXEME (LEXEME_STG_DESC) = ! Translates a name into a keyword token
181 0986 1
182 0987 1 !++
183 0988 1 | Functional description:
184 0989 1 |
185 0990 1 | Maps an alphabetic string onto an element in the keyword table.
186 0991 1 | If the alphabetic string does not match a keyword, then the
187 0992 1 | token "alpha_str_token" is returned. If the alphabetic string does match
188 0993 1 | a keyword, then the token for the keyword is abstracted from
189 0994 1 | the keyword table and returned.
190 0995 1
191 0996 1 | Calling sequence:
192 0997 1
193 0998 1 | CALL TRANS_LEXEME (LEXEME_STG_DESC.rt.dv)
194 0999 1
195 1000 1 | Inputs:
196 1001 1
197 1002 1 | LEXEME_STG_DESC - varying string descriptor for lexeme string
198 1003 1
199 1004 1 | Implicit inputs:
200 1005 1
201 1006 1 | The keyword table for the PATCH language.
202 1007 1
203 1008 1 | Outputs:
204 1009 1
205 1010 1 | none
206 1011 1
207 1012 1 | Implicit outputs:
208 1013 1
209 1014 1 | none
210 1015 1
211 1016 1 | Routine value:
212 1017 1
213 1018 1 | The token for the keyword that matches the ASCII string,
214 1019 1 | or the "alpha_str_token" token, if no keyword matches the string.
215 1020 1
216 1021 1 | Side effects:
217 1022 1
218 1023 1 | none
219 1024 1 |--
220 1025 1
221 1026 2 BEGIN
222 1027 2
223 1028 2 MAP
224 1029 2 | LEXEME_STG_DESC: REF BLOCK [, BYTE]; ! Lexeme string descriptor
225 1030 2
226 1031 2 LOCAL
227 1032 2 | KEYWORD_ENTRY : REF VECTOR [, BYTE]; ! Address of a keyword record;
228 1033 2
229 1034 2 KEYWORD_ENTRY = KEYWORD_TABLE [0];
230 1035 2 REPEAT
231 1036 3 | BEGIN
232 1037 3 | !++
233 1038 3 | | If the length of the keyword is at least as long as the lexeme found,
234 1039 3 | | and the lexeme found is at least as long as the abbreviation of the
235 1040 3 | | keyword, then try to match the strings.
236 1041 3 | |--
```

```

237 1042 3 IF (.KEYWORD_ENTRY [KWORD_LENGTH] GEQ .LEXEME_STG_DESC [DSCSW_LENGTH]) AND
238 1043 4 (.LEXEME_STG_DESC [DSCSW_LENGTH] GEQ .KEYWORD_ENTRY [KWORD_ABBREV])
239 1044 3 THEN BEGIN
240 1045 4   ++
241 1046 4     If a keyword match is found, return the token equivalent.
242 1047 4     --
243 1048 4     IF CHSEQL (.LEXEME_STG_DESC [DSCSW_LENGTH],
244 1049 4           CHSPTR (.LEXEME_STG_DESC [DSCSA_POINTER]),
245 1050 4           .LEXEME_STG_DESC [DSCSW_LENGTH],
246 1051 4           CHSPTR (KEYWORD_ENTRY [RWORD_NAME]))
247 1052 4     THEN RETURN .KEYWORD_ENTRY [KWORD_TOKEN];
248 1053 4
249 1054 4     END;
250 1055 3
251 1056 3
252 1057 3   ++
253 1058 3     Keyword did not match. Advance the table pointer to
254 1059 3     point to the next entry. If the first byte of this
255 1060 3     next entry is zero, conclude that the table is
256 1061 3     exhausted, and just return the alpha_str_token.
257 1062 3   --
258 1063 3     KEYWORD_ENTRY = KEYWORD_ENTRY [0]
259 1064 3       + .KEYWORD_ENTRY [KWORD_LENGTH] + KWORD_OVERHEAD;
260 1065 4     IF (.KEYWORD_ENTRY [KWORD_TOKEN] EQL 0)
261 1066 3     THEN RETURN ALPHA_STR_TOKEN;
262 1067 3
263 1068 2     END;
264 1069 1 END;

```

: INFO#212 L1:1034  
: Null expression appears in value-required context

007C 00000 TRANS_LEXEME:								
						.WORD	Save R2,R3,R4,R5,R6	0985
						MOVAB	KEYWORD_TABLE, KEYWORD_ENTRY	1034
						MOVL	LEXEME_STG_DESC, R6	1042
						MOVZBL	2(KEYWORD_ENTRY), R5	
						CMPW	(R6), R5	
						BGTRU	2\$	
						MOVZBL	1(KEYWORD_ENTRY), R0	1043
						CMPW	R0, (R6)	
						BGTRU	2\$	
						CMPC3	(R6), @4(R6), 3(KEYWORD_ENTRY)	1052
						BNEQ	2\$	
						MOVZBL	(KEYWORD_ENTRY), R0	1054
						RET		
						MOVAB	3(R5)[KEYWORD_ENTRY], KEYWORD_ENTRY	1064
						TSTB	(KEYWORD_ENTRY)	1065
						BNEQ	1\$	
						MOVZBL	#71, R0	1067
						RET		1069

; Routine Size: 57 bytes, Routine Base: \_PAT\$CODE + 003F

PATSCA  
V04-000

B 13  
16-Sep-1984 00:39:12      VAX-11 Bliss-32 v4.0-742  
14-Sep-1984 12:52:46      DISK\$VMSMASTER:[PATCH.SRC]PATSCA.B32;1 Page 12 (4)

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PATSCA  
V04-000

C 13  
16-Sep-1984 00:39:12  
14-Sep-1984 12:52:46

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[PATCH.SRC]PATSCA.B32;1

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PAT  
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: 266 1070 1 END  
: 267 1071 0 ELUDOM

: ! End of module

#### PSECT SUMMARY

Name	Bytes	Attributes
PAT\$PLIT	406	NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(0)
PAT\$CODE	120	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

#### Library Statistics

File	Total	Symbols	Pages Mapped	Processing Time
_S255\$DUA28:[SYSLIB]LIB.L32;1	18619	3	0	00:01.9

Information: 1  
Warnings: 0  
Errors: 0

#### COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/VARIANT:1/LIS=LIS\$:PATSCA/OBJ=OBJ\$:PATSCA MSRC\$:PATSCA/UPDATE=(ENH\$:PATSCA)

Size: 120 code + 406 data bytes  
Run Time: 00:10.6  
Elapsed Time: 00:47.8  
Lines/CPU Min: 690  
Lexemes/CPU-Min: 20576  
Memory Used: 99 pages  
Compilation Complete

0303 AH-BT13A-SE  
VAX/VMS V4.0

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